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V
CONTRIBUTIONS TO ORIENTAL HERPETOLOGY
II. KOREA or CHOSEN

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The herpetological fauna of Korea or Chosen is represented in the Academy's collection by 24 species. These are two salamanders, one discoglossid toad, one toad of the genus *Bufo*, one tree-frog, one engystomatid, five frogs, three lizards, eight snakes, and two turtles. Following is an annotated list of the species:

1. ***Hynobius leechii*** Boulenger

Our very large series has been reported upon by Dr. Dunn.

- 31841 to 32126. Fusan, Kjong-Sang-Do Province.
- 32127 to 32160. Chiksan, Kwi-Do Province.
- 32161 to 32167. Kong-Ju, Tschhung-Tschhong-Do Province
- 32168. Wonsan, Kang-Won-Do Province.
- 32374. Fusan, Kjong-Sang-Do Province.
- 35958 to 35975. Fusan, Kjong-Sang-Do Province.

2. ***Onychodactylus fischeri*** (Boulenger)

We have four adults (Nos. 32169 to 32172) and a very large series of larvæ (Nos. 32173 to 32373; 32984 to 32993; and 35977 to 35988) all collected at Wonsan, Kang-Won-Do Province. Most of these have been recorded by Dr. Dunn.

July 23, 1925

3. *Bombina orientalis* (Boulenger)

Males collected in May and June have the horny breeding pads on the fore limbs. In our series of more than 100 Korean specimens there is a great variation in the extent and uniting of the black ventral markings. Males usually are much more warty above than females and have much larger webs. They also show black dorsal markings much less distinctly than the females. However, there is a good deal of individual variation as regards all three of these sexual differences. Three young have very small webs. Our specimens are as follows:

- 17667 to 17669. Fusan, Kjong-Sang-Do Province, October, 1909.
32413 to 32457. Fusan, Kjong-Sang-Do Province, May 8, 1911.
32458 to 32478. Chiksan, Kwi-Do Province, June 16, 1911.
32479 to 32485. Sei-Shin, Ham-Gjong-Do Province, May 5, 1911.
32486 to 32504. Hoi-Ryong, Ham-Gjong-Do Province, May 22, 1911.
32505 to 32514. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
32515 to 32518. Sagawansa, June 8, 1911.
32519. Musan Pass, May 22, 1911.
35936 to 35938. Chiksan, Kwi-Do Province, June 16, 1911.

4. *Bufo bufo asiaticus* (Steindachner)

Thirty toads from Korea agree very well with specimens from China. They differ from the toads of Japan in the absence of the dark line along the lower jaw and in the less extensive pigmentation of the belly and of the sides of the body.

32375 to 32399. Wonsan, Kang-Won-Do Province, Korea, June 7, 1911. The web is large in all. The tympanum is small or moderate, except in 32386, in which it is large. There is no black line on the lower jaw. Most of the specimens are without much ventral pigmentation; 32380, 32388, 32390, 32393, 32394 show a few small dark spots on the belly; and 32379 and 32385 have many small spots. The lateral pigmentation varies considerably in amount. 32385, 32396, 32398 each have a ridge of small tubercles in the position of a tarsal fold.

32400 to 32411. Kong-Ju, Tschhung-Tschhong-Do Province, Korea, June 10, 1911. The web is large. The tympanum is moderate or small. There is no dark line on the lower jaw. There is not much lateral pigmentation. 32401, 32404, 32409

have numerous small spots on the belly; 32410, 32411 have a few small spots; the others are unspotted. 32404 has a tarsal ridge of small tubercles.

32412. Wonsan, Kang-Won-Do Province, June 5, 1911.

35989. Wonsan, Kang-Won-Do Province, June 1, 1911. Large web. Small tympanum. No jaw line. No belly spots. Considerable lateral black.

36009 to 36011. Kong-Ju, Tschhung-Tschhong-Do Province, June 13, 1911. Large web. Tympanum moderate in 36009, 36010; large in 36011. No dark jaw line. Little lateral black. 36009 has numerous small belly spots, and a tarsal ridge of tubercles.

5. *Hyla aboria japonica* Günther

Our series from Japan and Korea show that it is not possible to distinguish a subspecies *H. a. immaculata*. Of 37 specimens collected at Kong-Ju, Korea, June 10, 1911, 33 have some web between the third and fourth fingers, while four (Nos. 32957, 32966, 32971, 32975) have no web between these fingers. All of the four have loreal dark streaks, and these streaks are clearly shown, also, by all of the 33 except No. 32958, which has none, and Nos. 32950 and 32965, each of which has a mere trace. Loreal streaks are present in all our other Korean *Hylas* except two from Wonsan. These are No. 32929, in which there is a trace of the stripe, and No. 32932, in which the stripe is entirely wanting. Both have finger webs.

32887 to 32926. Fusan, Kjong-San-Do Province, May 6, 1911.

32927 to 32940. Wonsan, Kang-Won-Do Province, June 7, 1911.

32941 to 32977. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.

32978 to 32983. Sei-Ko-Shin, Ham-Gjong-Do Province, May 13, 1911.

35935. Chiksan, Kwi-Do Province, June 16, 1911.

36012 to 36024. Kong-Ju, Tschhung-Tschhong-Do Province, June 13, 1911.

6. *Cacopoides borealis* Barbour

A large series of this little known species was secured at Chiksan, Korea, June 16, 1911 (Nos. 32520 to 32572 and Nos. 35939 to 35944). It may be supposed that the species was breeding at that time. Some of the specimens are nearly

black over all of the upper surfaces. Others are quite light in general coloration, with various cloudings, blotches, spots or dots of dark brown, slate or black. The light ground color in the less pigmented specimens may be gray or pale brown, sometimes with a trace of pink.

7. *Rana chinensis* Osbeck

Our Korean collections include about 109 specimens of this frog. They seem to show no difference in any way between Japanese and Chinese specimens. Frequently there is no dorsal line or band. Such specimens may resemble *Rana plancyi*, but may be readily distinguished by their dorsal dermal ridges which are lacking in *Rana plancyi*.

- 32766 to 32790. Sei-Shin, Ham-Gjong-Do Province, May 15, 1911.
 32791 to 32824. Fusan, Kjong-Sang-Do Province, May 8, 1911.
 32826 to 32839. Fusan, Kjong-Sang-Do Province, May 8, 1911.
 32840. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 32844 to 32845. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 32849. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 32853. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 32854 to 32863. Hoi-Ryong, Ham-Gjong-Do Province, May 21, 1911.
 32864 to 32870. Wonsan, Kang-Won-Do Province, June 7, 1911.
 32873 to 32874. Sagawansa, June 8, 1911.
 32875 to 32886. Sei-Ko-Shin, Ham-Gjong-Do Province, May 13, 1911.
 35957. Fusan, Kjong-Sang-Do Province, May 8, 1911.

8. *Rana plancyi* Lataste

This frog seems not to be on record from Korea. Nevertheless it must be fairly common there, as we have 14 specimens from four localities, as follows:

32825. Fusan, Kjong-Sang-Do Province, May 8, 1911.
 32841 to 32843. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 32846 to 32848. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 32850 to 32852. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 32871 to 32872. Chiksan, Kwi-Do Province, June 16, 1911.
 36002 to 36003. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.

9. *Rana temporaria* Linnæus

Our Korean collections include numerous frogs of the *temporaria* group. There is much variation, particularly in the position of the vomerine teeth, in specimens from the same locality. To the name *Rana temporaria* have been referred specimens which agree in having the dorsolateral ridge flaring out anteriorly toward the tympanum, the snout short, the web large or very large, and no definite light line along the upper jaw. The vomerine teeth may be between the choanæ (as in Nos. 32727, 32763), between and behind (as in Nos. 32748, 32750, 32751, 32762, 32765), or behind the choanæ (as in Nos. 32749, 32752, 32753, 32764). The outer metatarsal tubercle may be absent (No. 32749), but is present in nearly all.

- 32700 to 32726. Pu-Ryong, Ham-Gjong-Do Province, May 22, 1911.
32727. Hoi-Ryong, Ham-Gjong-Do Province, May 21, 1911.
32748 to 32753. Musan Pass, May 22, 1911.
32754 to 32761. Wonsan, Kang-Won-Do Province, June 7, 1911.
32762 to 32765. Sei-Shin, Ham-Gjong-Do Province, May 15, 1911.
35991 to 35997. Pu-Ryong, Ham-Gjong Do Province, May 22, 1911.

10. *Rana japonica* (Günther)

The frogs which have been referred to this species agree in the possession of dorsolateral ridges which either are very indistinct or wanting anteriorly, or run forward without bending out much toward the tympanum, long snouts, small webs, and usually a very distinct light line along the upper jaw. The vomarine teeth vary in position as they do in *Rana temporaria*, being sometimes between the choanæ (as in Nos. 32738, 32740, 32745, 32747), sometimes between and behind (as in Nos. 32728, 32731, 32733, 32735, 32736, 32737, 32739, 32741, 32742, 32743, 32746), and sometimes quite behind the choanæ (as in Nos. 32729, 32730, 32732, 32734, 32744). The outer metatarsal tubercle is usually absent (32729, 32730, 32731, 32733), but may be present on one side only (36006, 36008) or on both sides (32728, 32732, 36028). Nos. 36029 and 36030 have larger webs than the other specimens, and their snouts seem a little shorter. The dorsolateral ridge flares out somewhat in Nos. 35934, 36007 and 36008.

- 32728 to 32733. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 32734 to 32747. Sei-Ko-Shin, Ham-Gjong-Do Province, May 13, 1911.
 35934. Chiksan, Kwi-Do Province, June 16, 1911.
 36004 to 36008. Kong-Ju, Tschhung-Tschhong-Do Prov., June 12-13, 1911.
 36028 to 36030. Sei-Ko-Shin, Ham-Gjong-Do Province, May 13, 1911.

11. *Rana rugosa* Schlegel

This frog has apparently not been previously recorded from Korea. It must, however, be common there, for we have more than 130 specimens from six localities. Korean and Japanese specimens appear to be identical.

- 32573 to 32652. Fusan Kjong-Sang-Do Province, May 8, 1911.
 32653 to 32667. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 32668 to 32671. Sagawansa, June 8, 1911.
 32672 to 32678. Wonsan, Kang-Won-Do Province, June 7, 1911.
 32679 to 32686. Sei-Shin, Ham-Gjong-Do Province, May 15, 1911.
 32687 to 32698. Pu-Ryong, Ham-Gjong-Do Province, May 22, 1911.
 32699. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 35955 to 35956. Fusan, Kjong-San-Do Province, May 8, 1911.
 35998 to 36000. Kong-Ju, Tschhung-Tschhong-Do Province, June 12, 1911.

12. *Takydromus amurensis* Peters

This species is well represented in our collection by specimens from many localities in Korea. These are listed below:

- 31685 to 31733. Wonsan, Kang-Won-Do Province, June 7, 1911.
 31777. Kong-Ju, Tschhung-Tschhong Province, June 10, 1911.
 31812. Chiksan, Kwi-Do Province, June 16, 1911.
 31818. Chiksan, Kwi-Do Province, June 16, 1911.
 31819 to 31823. Musan Pass, May 22, 1911.
 31824 to 31828. Pu-Ryong, Ham-Gjong-Do Province, May 22, 1911.
 31829 to 31836. Sei-Shin, Ham-Gjong-Do Province, May 15, 1911.
 31837 to 31839. Shoko, May 23, 1911.
 31840. Hoi-Ryong, Ham-Gjong-Do Province, May 21, 1911.
 33013. Wonsan, Kang-Won-Do Province, June 7, 1911.
 33014. Shoko, May 23, 1911.
 35976. Wonsan, Kang-Won-Do Province, June 6, 1911.

13. *Takydromus wolteri* Fischer

This grass lizard is represented from only three localities in Korea. All of the specimens have one pore on each side.

- 31546 to 31684. Fusan, Kjong-Sang-Do Province, May 8, 1911.
 31734 to 31735. Wonsan, Kang-Won-Do Province, June 7, 1911.
 31807 to 31811. Chiksan, Kwi-Do Province, June 16, 1911.
 31813 to 31817. Chiksan, Kwi-Do Province, June 16, 1911.
 33015. Fusan, Kjong-Sang-Do Province, May 8, 1911.
 35945 to 35954. Fusan, Kjong-Sang-Do Province, May 8, 1911.

14. *Eremias argus* Peters

This lizard was secured in good series at two localities in Korea, as listed below. These specimens seem not to differ from those we have received from China.

- 31736 to 31776. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 31778 to 31806. Chiksan, Kwi-Do Province, June 16, 1911.
 35933. Chiksan, Kwi-Do Province, June 22, 1911.
 36025 to 36027. Kong-Ju, Tschhung-Tschhong-Do Province, June 14, 1911.

15. *Natrix vibakari vibakari* Van Denburgh

This subspecies differs from that of the Japanese islands in having fewer urosteges. These vary from 55 to 65, average in nine specimens 61, while in *N. vibakari vibakari* the counts vary from 63 to 83, average in 34 specimens 71.4. There is but little difference in the counts of males and females.

Our Korean collections contain four of these snakes taken at Fusan, Kjong-Sang-Do Province, May 8, 1911. The counts of these specimens are given below. No. 31487 is the type. All have 19 scale rows.

No.	Sex	Gastrosteges	Urosteges	Supra-labials	Infra-labials	Pre-oculars	Post-oculars	Loreal	Temporals
31485	♀	148	65c	7-7	8-8	1-1	2-3	1-1	1+1-1+1
31486	♀	142	61c	6-6	8-8	2-2	3-2	1-1	1+1-1+1
31487	♂	153	64c	7-7	8-8	1-1	3-2	1-1	1+1-1+1
31488	♀	146	56c	7-7	8-8	1-1	2-2	1-1	1+1-1+1

16. *Natrix tigrina tigrina* (Boie)

Our Korean collections include 27 snakes of this subspecies taken at the following localities:

- 31448 to 31454. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 31461 to 31469. Fusan, Kjong-Sang-Do Province, May 8, 1911.
 31489 to 31496. Wonsan, Kang-Won-Do Province, June 7, 1911.
 31530 to 31531. Chiksan, Kwi-Do Province, June 16, 1911.
 31544. Ujo, May 23, 1911.

The counts of these specimens are given below. All have 19 scale rows. The anal is divided.

No.	Sex	Gastro- steges	Uro- steges	Supra- labials	Infra- labials	Pre- oculars	Post- oculars	Temporals
31448	♀	171	52+	7-7	8-9	2-2	3-3	1+1-1+1
31449	♂	164	71c	7-7	8-7	2-2	3-3	1+2-1+2
31450	♂	163	71c	7-7	8-8	2-2	3-3	1+2-1+2
31451	♀	163	57+	7-7	8-8	2-2	3-3	1+2-1+2
31452	♀	172	43+	7-7	8-8	2-2	3-3	1+2-1+2
31453	♀	167	63c	7-7	8-8	2-2	3-3	1+2-1+2
31454	♂	159	67c	7-7	8-8	2-2	3-3	1+2-1+2
31461	♀	168	59c	7-7	8-9	2-2	3-3	1+2-1+2
31462	♀	163	61c	7-7	8-8	2-2	3-3	1+2-1+2
31463	♂	159	71c	7-7	8-8	2-2	4-4	1+2-1+2
31464	♂	164	74c	7-7	8-8	2-2	3-3	1+2-1+2
31465	♀	166	50+	7-7	8-8	2-2	3-3	1+2-1+2
31466	♂	165	67c	7-7	8-8	2-2	3-3	1+2-1+2
31467	♀	169	65c	7-7	8-8	2-2	3-3	1+2-1+2
31468	♀	165	61c	7-7	8-8	2-2	3-3	1+2-1+2
31469	♀	168	64c	7-7	9-8	2-2	3-3	1+2-1+2
31489	♂	163	70c	7-7	8-9	2-2	3-3	2-2
31490	♂	157	71c	7-7	9-9	2-2	3-3	1+2-1+1
31491	♂	155	70c	7-7	9-8	2-2	2-2	1+1-1+2
31492	♂	153	70c	7-7	9-8	2-2	3-3	1+2-1+2
31493	♂	158	69c	7-7	9-9	2-2	3-3	1+2-1+2
31494	♂	155	68c	7-7	9-9	2-2	3-3	1+2-1+2
31495	♂	158	69c	7-7	8-8	2-2	3-3	1+2-1+2
31496	♀	163	72c	7-7	9-9	2-2	3-3	1+2-1+2
31530	♂	158	69c	7-7	8-8	2-2	3-3	1+2-1+2
31531	♂	159	62c	7-7	8-9	2-2	3-3	1+2-1+2
31544	♀	161	41+	7-7	8-8	2-2	4-3	1+2-1+2

17. *Elaphe rufodorsata* (Cantor)

Twenty-nine Korean specimens of this snake are at hand, as follows:

17666. Fusan Kjong-Sang-Do Province, October, 1909.
 31457 to 31459. Fusan, Kjong-Sang-Do Province, June 10, 1911.
 31470 to 31476. Fusan, Kjong-Sang-Do Province, May 8, 1911.
 31477 to 31482. Fusan, Kjong-Sang-Do Province, May 10, 1911.
 31498 to 31499. Wonsan, Kang-Won-Do Province, June 7, 1911.

- 31502 to 31505. Wonsan, Kang-Won-Do Province, June 7, 1911.
 31532 to 31533. Chiksan, Kwi-Do Province, June 16, 1911.
 31535 to 31536. Pu-Ryong, Ham-Gjong-Do Province, May 22, 1911.
 31545. Fusan, Kjong-Sang-Do Province, May 8, 1911.
 33012. Fusan, Kjong-Sang-Do Province, May 8, 1911.

The counts of these specimens are given below. All have 21 scale rows.

No.	Sex	Gastro- steges	Uro- steges	Anal	Supra- labials	Infra- labials	Pre- oculars	Post- oculars	Temporals
17666	♀	176	50c	2	8-7	10-10	1-1	2-2	2+3-2+3
31457	♀	179	51c	2	7-8	10-10	1-1	2-2	2+3-2+3
31458	♂	168	59c	2	7-7	10-10	1-1	2-2	2+3-2+3
31459	♀	179	53c	2	7-7	10-10	1-1	2-2	2+3-2+3
31470	♂	169	61c	2	7-7	10-10	1-1	2-2	1+2-1+2
31471	♀	173	50c	2	7-7	10-10	1-1	2-2	2+2-2+3
31472	♀	179	37+	2	8-7	10-9	1-1	2-2	2+3-2+3
31473	♂	163	61c	2	7-7	10-10	1-1	2-2	2+3-2+2
31474	♀	178	51c	2	7-7	10-10	1-1	2-2	2+3-2+2
31475	♀	177	50c	2	8-8	10-10	1-1	2-2	2+2-2+2
31476	♀	174	51c	2	8-7	10-10	1-1	2-2	2+3-2+3
31477	♂	170	61c	2	8-8	10-10	1-1	2-2	2+3-2+3
31478	♀	183	51c	2	7-8	10-10	1-1	2-2	2+3-2+2
31479	♀	173	51c	2	8-7	10-9	1-1	2-2	2+3-2+3
31480	♀	177	52c	2	7-7	10-9	1-1	2-2	2+2-2+2
31481	♂	169	60c	2	7-7	10-10	1-1	2-2	2+2-2+3
31482	♂	168	57c	2	7-7	10-10	1-1	2-2	2+2-2+3
31498	♂	161	63c	2	7-7	10-10	1-1	2-2	2+2-2+2
31499	♀	177	49c	2	7-7	10-10	1-1	2-2	2+3-2+3
31502	♀	174	55c	2	7-8	10-10	1-1	2-2	2+3-2+3
31503	♂	168	62c	2	8-7	10-10	1-1	2-2	2+2-2+3
31504	♂	167	61c	2	7-7	10-10	1-1	2-2	2+3-2+3
31505	♂	168	62c	2	8-8	10-10	1-1	2-2	2+3-2+2
31532	♂	171	63c	2	7-7	10-10	1-1	2-2	1+3-2+3
31533	♂	167	62c	2	7-7	10-10	1-1	2-2	2+3-2+3
31535	♂	161	63c	2	7-7	10-9	1-1	2-2	2+3-2+3
31536	♂	163	59c	2	7-7	10-10	1-1	2-2	2+3-2+2
31545	♀	175	56c	2	8-8	10-10	1-1	2-2	2+2-2+2
33012	?	7-7	10-10	1-1	2-2	2-2

18. *Elaphe schrenckii* Strauch

Nine specimens were collected in Korea, as follows:

31460. Fusan, Kjong-Sang-Do Province, May 8, 1911.
 31497. Wonsan, Kang-Won-Do Province, June 7, 1911.
 31513 to 31519. Chiksan, Kwi-Do Province, June 16, 1911.

The scale counts are as follows :

No.	Sex	Scale rows	Gastrosteges	Urosteges	Anal	Supra-labials	Infra-labials	Pre-oculars	Post-oculars	Temporals
31460	♀	23	222	69c	2	8-8	10-10	1-1	2-2	2+3-2+3
31497	♀	23	223	67c	2	8-8	9-9	1-1	2-2	2+3-2+3
31513	♂	23	216	72c	2	8-8	10-10	2-2	1-1	2+3-2+3
31514	♂	23	217	64+	2	8-7	11-9	1-1	2-2	2+3-2+3
31515	♂	23	221	74c	2	8-8	9-10	2-2	2-2	2+3-2+3
31516	♂	23	227	67c	2	8-8	11-11	1-1	2-2	2+3-2+3
31517	♂	23	216	72+	2	7-8	10-9	1-1	1-1	2+3-2+3
31518	♀	23	129	71c	2	8-8	10-10	1-1	2-2	2+3-2+3
31519	♀	23	128	66c	2	8-8	10-10	1-1	2-2	2+3-2+3

19. *Elaphe dione* (Pallas)

Eight specimens of this snake have been received from Korea as follows :

- 31455 to 31456. Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.
 31500. Wonsan, Kang-Won-Do Province, June 7, 1911.
 31520 to 31522. Chiksan, Kwi-Do Province, June 16, 1911.
 31534. Pu-Ryong, Ham-Gjong-Do Province, May 22, 1911.
 31541. Sei-Shin, Ham-Gjong-Do Province, May 15, 1911.

The scale counts are given below.

No.	Sex	Scale rows	Gastrosteges	Urosteges	Anal	Supra-labials	Infra-labials	Pre-oculars	Post-oculars	Temporals
31455	♂	25	203	64c	2	8-8	10-11	2-2	2-2	2+3-2+2
31456	♀	25	205	71c	2	8-8	11-11	2-3	2-2	2+4-2+4
31500	♀	27	199	62c	2	8-8	11-11	2-2	2-2	2+3-2+3
31520	♂	25	199	73c	2	8-8	11-11	2-2	2-2	2+3-2+3
31521	♀	25	200	59c	2	8-8	11-	2-2	2-2	2+4-2+3
31522	♂	25	193	71c	2	8-8	10-11	2-2	2-2	2+4-2+3
32534	♀	25	193	60c	2	8-8	11-11	1-1	2-2	2+4-2+4
31541	♀	23	197	56+	2	8-8	10-10	2-2	2-2	2+3-2+3

20. *Coluber spinalis* (Peters)

Our only Korean specimen of this snake (No. 31529) was taken at Chiksan, Kwi-Do Province, June 16, 1911. It is a female with scales in 17 rows, gastrosteges 203, urosteges 86

complete, anal divided, supralabials 8-8, infralabials 9-10, pre-oculars 2-2, postoculars 2-2, loreal 1-1, and temporals 2+2—2+2.

21. *Dinodon rufozonatum* (Cantor)

This species seems to be rather rare in Korea. Its occurrence there has been known from one or two specimens without exact data. We have received only one, caught at Fusan, Kjong-Sang-Do Province, May 8, 1911. It is No. 31483, a male, with 17 scale rows, gastrosteges 201, urosteges 73 complete, anal single, supralabials 7-7, infralabials 9-9, preoculars 2-2, postoculars 2-2, no loreal, and temporals 2+3—2+3.

22. *Agkistrodon blomhoffii brevicaudus* Stejneger

Fourteen specimens of this subspecies are at hand from the following localities:

31506. Wonsan, Kang-Won-Do Province, June 7, 1911.
 31508. Wonsan, Kang-Won-Do Province, June 7, 1911.
 31510. Wonsan, Kang-Won-Do Province, June 7, 1911.
 31512. Wonsan, Kang-Won-Do Province, June 7, 1911.
 31523 to 31527. Chiksan, Kwi-Do Province, June 16, 1911.
 31537 to 31539. Pu-Ryong, Ham-Gjong-Do Province, May 22, 1911.
 31542. Shoko, May 23, 1911.
 31543. Musan Pass, May 22, 1911.

The scale counts are as follows:

No.	Sex	Scale rows	Gastrosteges	Urosteges	Anal	Supralabials	Infralabials	Pre-oculars	Post-oculars	Temporals
31506	♀	21	145	42c	1	7-7	10-10	2-2	2-2	2+3-2+3
31508	♀	21	143	33c	1	7-7	10-10	2-2	2-2	2+3-2+3
31510	♀	21	147	38c	1	7-7	10-10	2-2	2-2	2+3-2+4
31512	♂	21	146	49c	1	7-7	10-10	2-2	3-2	2+2-2+2
31523	♀	21	146	38c	1	7-7	10-10	2-2	2-2	2+3-2+3
31524	♂	21	149	54c	1	7-7	11-10	2-2	2-2	2+4-2+4
31525	♂	21	147	48c	1	7-7	10-10	2-2	2-2	2+3-2+3
31526	♀	21	150	43c	1	7-7	10-10	2-2	3-3	2+2-2+2
31527	♀	21	145	45c	1	8-7	11-11	2-2	2-2	2+3-2+3
31537	♂	21	147	27+	1	7-7	11-11	2-2	2-2	2+3-2+3
31538	♂	21	145	47c	1	7-7	10-10	2-2	2-2	2+3-2+3
31539	♀	21	155	43c	1	7-7	10-10	2-2	2-2	2+3-2+3
31542	♀	21	156	41c	1	7-7	11-10	2-2	3-3	2+3-2+3
31543	♂	21	153	42c	1	7-7	11-10	2-2	3-3	2+3-2+3

23. *Geoclemys reevesii* (Gray)

One typical specimen of this turtle (No. 31437) was collected at Kong-Ju, Tschhung-Tschhong-Do Province, June 10, 1911.

24. *Amyda maackii* (Brandt)

Sixteen soft-shelled turtles were collected at Kong-Ju, Tschhung-Tschhong-Do Province, June 10-14, 1911. These are Nos. 31438 to 31447 and 36055 to 36060. These turtles agree in having the interocular and especially the temporal dark stripes broader and more conspicuous than in Chinese specimens. They also have much more of the fine yellow dotting on all of the dorsal surfaces. They seem to differ from Chinese turtles only in color.